First Preliminary Amendment

## AMENDMENTS TO THE CLAIMS

 (Currently Amended) A nanoporous polymer foam, obtainable by a process comprising curing microemulsions which comprise at least one aqueous polycondensationreactive resin, at least one oil component and at least one amphiphile, and subsequently drying.

- (Original) The nanoporous polymer foam according to claim 1, wherein the microemulsion comprises, as the polycondensation-reactive resin, an amino resin.
- (Original) The nanoporous polymer foam according to claim 2, wherein the amino resin is a urea-formaldehyde, benzoguanamine-formaldehyde or melamine-formaldehyde resin.
- (Original) The nanoporous polymer foam according to claim 1, wherein the microemulsion comprises at least one reactive amphiphile.
- (Currently Amended) The nanoporous polymer foam according to one of claims
   1-to 4 claim 1, wherein the oil phase comprises a hydrocarbon, alcohol, ketone, ether or alkyl
   ester, or a mixture of the substances mentioned having a boiling point at atmospheric pressure
   below 120°C.
- (Currently Amended) The nanoporous polymer foam according to any of elaims +to-5.claim 1, wherein the bulk density is in the range from 5 to 200 g/l.

(Currently Amended) The nanoporous polymer foam according to any of claims
 +to 6 claim 1, wherein the average pore diameter is in the range from 10 to 1000 nm, preferably
 from 30 to 300 nm.

Docket No.: 12810-00251-US1

- (Currently Amended) A process for producing nanoporous polymer foams, comprising the stages of
  - a. providing a polycondensation-reactive resin,
  - preparing a microemulsion comprising an oil phase, an amphiphile and an aqueous solution of a curing agent and/or curing catalyst for the polycondensationreactive resin
  - c. combining the solution of the polycondensation-reactive resin from stage
    a) with the microemulsion from stage b) and curing the reactive components, and
    - d. drying to obtain the structure of the cured microemulsion.
- (Original) The process according to claim 8, wherein a urea-formaldehyde or melamine-formaldehyde resin is used as the polycondensation resin.
- (Currently Amended) The process according to claim 8-or-9 claim 8, wherein the microemulsion comprises at least one reactive amphiphile.
- (Currently Amended) The process according to any of claims 8 to 10 claim 8, wherein an organic or inorganic acid is used as the curing catalyst.
- (Currently Amended) The process according to one of claims 8 to 10 claim 8, wherein the oil phase used is a hydrocarbon, alcohol, ketone, ether or alkyl ester, or mixture

thereof having a boiling point at atmospheric pressure below 120°C, and the oil phase is removed by evaporation.

13. (New) The nanoporous polymer foam according to claim 2, wherein the oil phase comprises a hydrocarbon, alcohol, ketone, ether or alkyl ester, or a mixture of the substances mentioned having a boiling point at atmospheric pressure below 120°C.

Docket No.: 12810-00251-US1

- 14. (New) The nanoporous polymer foam according to claim 3, wherein the oil phase comprises a hydrocarbon, alcohol, ketone, ether or alkyl ester, or a mixture of the substances mentioned having a boiling point at atmospheric pressure below 120°C.
- 15. (New) The nanoporous polymer foam according to claim 4, wherein the oil phase comprises a hydrocarbon, alcohol, ketone, ether or alkyl ester, or a mixture of the substances mentioned having a boiling point at atmospheric pressure below 120°C.
- (New) The nanoporous polymer foam according to claim 2, wherein the bulk density is in the range from 5 to 200 g/l.
- (New) The nanoporous polymer foam according to claim 3, wherein the bulk density is in the range from 5 to 200 g/l.
- (New) The nanoporous polymer foam according to claim 4, wherein the bulk density is in the range from 5 to 200 g/l.
- (New) The nanoporous polymer foam according to claim 5, wherein the bulk density is in the range from 5 to 200 g/l.
- (New) The nanoporous polymer foam according to claim 2, wherein the average pore diameter is in the range from 10 to 1000 nm, preferably from 30 to 300 nm.